RESTRICTED CIRCULATION

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Agricultural Memorandum No 782

Return Dates-Formulae using annual parameters

L.P. Smith

RD = average return date in usual notation (Sept 5=1, 10 day units)

R_1 = average annual rainfall, maximum 800 mm

R_2 = average annual rainfall, excess of 800 mm

PT_a = average annual potential transpiration, in mm

		Multiple Correlation
NORTH	$11.3 - 0.023R_1 - 0.007R_2 + 0.023\ PT_a$	0.99
MIDLANDS	$11.4 - 0.0237R_1 - 0.0076R_2 + 0.025\ PT_a$	0.99
EAST	$16.7 - 0.0213R_1 + 0.0115PT_a$	0.96
WALES	$12.9 - 0.02R_1 - 0.008R_2 + 0.0166PT_a$	0.98
SOUTHEAST and MID SOUTHWEST	$13.2 - 0.015R_1 - 0.01R_2 + 0.01PT_a$	0.99
FAR SOUTHWEST (Devon & Cornwall)	$1.6 - 0.01\ (R_1 + R_2) + 0.023\ PT_a$	0.97

The previous formulae are more logical but these may be more convenient.

Any comments or suggestions on this paper should be referred to the author.

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